

FORM PTO-1449 (Modified)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 944-001.057	SERIAL NO. 10/016,139
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Jari Syrjäinne et al.	
(Use several sheets if necessary) (37 CFR 1.98(b))		FILING DATE December 12, 2001	GROUP Not Yet Assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
FHM		4 5 3 5 6 2 5	08/20/85	Lyle, Jr.	—	—	
FAM		5 1 4 4 5 9 5	09/01/92	Graham et al.	—	—	
FHM		5 3 5 5 3 1 6	10/11/94	Knobbe	—	—	
FAM		5 3 8 1 0 9 5	01/10/95	Andrews	—	—	
FHM		5 5 0 6 8 1 7	04/09/96	O'Brien, Jr.	—	—	
FHM		5 5 1 1 0 4 2	04/23/96	O'Brien, Jr.	—	—	
FHM		5 5 2 5 9 9 5	06/11/96	Benner	—	—	
FHM		5 5 3 7 3 6 8	07/16/96	O'Brien, Jr. et al.	—	—	

FOREIGN PATENT DOCUMENTS

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GROUP 3600

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

FHM	.	1 S. Bancroft (1985), "An Algebraic Solution of the GPS Equations," IEEE Transactions on Aerospace and Electronic Systems, Vol. 21 (7), January 1985.
FIM	.	2 A. Houles and Y. Bar-Shalom (1989), "Multisensor Tracking of a Maneuvering Target in Clutter," IEEE Transactions on Aerospace and Electronic Systems,
—		Vol. 25 (2), March 1989.
FHM	.	3 F. Dufour and M. Mariton (1991), "Tracking a 3D Maneuvering Target With Passive Sensors," IEEE Transactions on Aerospace and Electronic Systems,
—		Vol. 27 (4), July 1991.
FHM	.	4 J. Chaffee and J. Abel (1992), "The GPS Filtering Problem," IEEE Position, Location and Navigation Symposium 1992.
FHM	,	5 J. Chaffee, J. Abel and B. McQuiston (1993), "GPS Positioning, Filtering and

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	12-4-02

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Sheet 2 of 3

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FHM	5 8 8 3 5 9 5	03/16/99	Colley			
FHM	5 9 0 2 3 5 1	05/11/99	Streit et al.			
FHM	6 1 2 7 9 6 8	10/03/00	Lu			
FHM	6 2 6 6 5 3 3	07/24/01	Zadeh et al.			
FHM	6 2 8 5 3 1 5	09/04/01	Pratt			

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						APR 02 2002
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OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

	Integration," IEEE Aerospace and Electronics Conference 1993.
FHM	6 Yaakov Bar-Shalom (1995), "Multitarget-Multisensor Tracking Principles and Techniques," NMP Research and Technology, pp. 1, 46 and 20.
FHM	7 Elliot D. Kaplan (1996), "Understanding GPS: Principles and Applications," Artech House Publisher, 1996, pp. 25-27.
FHM	8 Greg Welch and Gary Bishop (1997), "An Introduction to the Kalman Filter," University of North Carolina at Chapel Hill, Department of Computer Science,
	Chapel Hill, North Carolina, USA, TR95-041, September 17, 1997.
FHM	9 Jiao Shuhong, Si Xicai and Kong Fanru (1998), "A Time-of-Arrival Location for Maneuvering Target on Two-Dimensional Surface," Signal Processing

EXAMINER	DATE CONSIDERED
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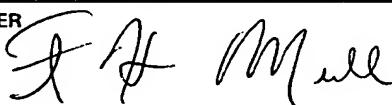
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									YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

		Proceedings 1998, ICSP98, Fourth International Conference Vol. 2, 1998, pp. 1700-1703.
FHM	10	Nathan A. White, Peter S. Maybeck and Stewart L. DeVilbiss (1998), "Detection of Interference/Jamming and Spoofing in a DGPS-Aided Inertial
		System," IEEE Transactions on Aerospace and Electronic Systems, Vol. 34, No. 4,
		October 1998, pp. 1208-1217.
FHM	11	M. Phatak, M. Chansarkar and S. Kohli (1999), "Position Fix From Three GPS Satellites and Altitude: A Direct Method," IEEE Transactions on Aerospace and
		Electronic Systems, Vol. 35 (1), January 1999.
FHM	12	Jari Syrjärinne and Paula Korvenoja (2001) "Nano R1 Navigation Filter," Nokia Mobile Phones, September 5, 2001.

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